

Serial No.: 10/049,366
Amendment Dated: November 23, 2004
Reply to Office Action of: August 23, 2004
Express Mail Label No. EV 514700580 US

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the above-captioned patent application:

Listing of Claims:

1. (Currently Amended) A biosensor that is made of a single layer or plural layers of a porous material, said biosensor having a reagent holding part which holds a reagent for marking an analyte in a liquid specimen by and utilizing chromatography, wherein comprising
~~a cell shrinkage reagent is carried on at least part of the reagent holding part, or at least part of a chromatographically developed part which is upstream of the reagent holding part~~
~~a carrier for carrying a cell shrinkage reagent having the ability of making cell components shrink on at least a part of an area from a specimen addition part for adding the liquid specimen to the reagent holding part.~~
2. (Currently Amended) The biosensor of Claim 1 wherein ~~a~~ the liquid specimen to be added is whole blood.
3. (Currently Amended) The biosensor of Claim 1 wherein ~~a~~ the liquid specimen to be added is a solution including bacteria.
4. (Original) The biosensor of Claim 1 wherein the cell shrinkage reagent is inorganic salt.
5. (Original) The biosensor of Claim 1 wherein the cell shrinkage reagent is amino acid.

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6. (Original) The biosensor of Claim 1 wherein the cell shrinkage reagent is saccharide.

7. (Currently Amended) The biosensor of Claim 1 wherein ~~a~~ the carrier that carries the cell shrinkage reagent is dried naturally or dried by air-drying.

8. (Currently Amended) The biosensor of Claim 1 wherein ~~a~~ the carrier that carries the cell shrinkage reagent is dried by freeze-drying.

9. (Currently Amended) The biosensor of Claim 1 wherein ~~a~~ the carrier that carries the cell shrinkage reagent is dried by heat drying.

~~11.~~ 10. (Currently Amended) The biosensor of Claim 2 wherein the biosensor is a one-step immunochromatographic test strip.

~~12.~~ 11. (Currently Amended) The biosensor of Claim 1 wherein the biosensor is a dry analytical element.

~~13.~~ 12. (Currently Amended) A blood component analytical method in which a biosensor ~~that is~~ is employed, ~~said biosensor being~~ made of a single layer or plural layers of a porous material, said biosensor having a reagent holding part which holds a reagent for marking an analyte in a liquid specimen, and analyzing components in the analyte in a liquid specimen by utilizing chromatography is employed, wherein ~~cell components shrink and the shrunk cell components are separated in an area of at least part of the reagent holding part, or at least part of a chromatographically developed part that is upstream of the reagent holding part, on which a cell shrinkage reagent is carried~~

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a cell shrinkage reagent having the ability of making cell components shrink is carried on at least a part of an area from a specimen addition part for adding the liquid specimen to the reagent holding part,

the cell shrinkage reagent is dissolved from the area carrying the cell shrinkage reagent by blood specimen added to the specimen addition part infiltrating into the cell shrinkage agent carrying area,

the cell components included in the blood specimen are shrunk with the dissolved cell shrinkage reagent, and the shrunk cell components are separated and chromatographically developed, and

the analyte in the blood specimen which is chromatographically developed is marked with the reagent which has been held in the reagent holding part and components in the analyte in the blood specimen are analyzed.

14. 13. (Currently Amended) The blood component analytical method of Claim ~~13~~ 12 wherein a blood specimen to be added is whole blood.

15. 14. (Currently Amended) The blood component analytical method of Claim ~~13~~ 12 wherein the cell shrinkage reagent is inorganic salt.

16. 15. (Currently Amended) The blood component analytical method of Claim ~~13~~ 12 wherein the cell shrinkage reagent is amino acid.

17. 16. (Currently Amended) The blood component analytical method of Claim ~~13~~ 12 wherein the cell shrinkage reagent is saccharide.

18. 17. (Canceled)

19. 18. (Canceled)

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20. 19. (Canceled)

21. 20. (Currently Amended) The blood component analytical method of Claim ~~13~~ 12 wherein the concentration of the cell shrinkage reagent is 0.05 ~ 0.3M.

22. 21. (Currently Amended) The blood component analytical method of Claim ~~13~~ 12 wherein the biosensor is a one-step immunochromatographic test strip.

23. 22. (Currently Amended) The blood component analytical method of Claim ~~13~~ 12 wherein the biosensor is a dry analytical element.

24. 23. (Currently Amended) A blood component analytical method in which a biosensor ~~that is~~ is employed, ~~said biosensor being~~ made of a single layer or plural layers of a porous material, said biosensor having a reagent holding part which holds a reagent for marking an analyte in a liquid specimen, and analyzing components in the analyte in the liquid specimen by utilizing chromatography is employed, wherein ~~cell components shrink or shrink while being chromatographically developed in a state where shrunk cell components are mixed, in an area of at least part of the reagent holding part, or at least part of a chromatographically developed part that is upstream of the reagent holding part, on which a cell shrinkage reagent is carried a cell shrinkage reagent having the ability of making cell components shrink is carried on at least a part of an area from a specimen addition part for adding the liquid specimen to the reagent holding part,~~

~~the cell shrinkage reagent is dissolved from the area carrying the cell shrinkage reagent by the blood specimen added to the specimen addition part infiltrating into the cell shrinkage agent carrying area,~~

~~the blood components are chromatographically developed in a state where the cell components included in the blood specimen which are shrunk with the dissolved cell shrinkage reagent are mixed with the blood specimen, and~~

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the analyte in the blood specimen which is chromatographically developed is marked with the reagent which has been held in the reagent holding part and components in the analyte in the blood specimen are analyzed.

25. 24. (Currently Amended) The blood component analytical method of Claim 24 23 wherein a blood specimen to be added is whole blood.

26. 25. (Currently Amended) The blood component analytical method of Claim 24 23 wherein the cell shrinkage reagent is inorganic salt.

27. 26. (Currently Amended) The blood component analytical method of Claim 24 23 wherein the cell shrinkage reagent is amino acid.

28. 27. (Currently Amended) The blood component analytical method of Claim 24 23 wherein the cell shrinkage reagent is saccharide.

29. 28. (Canceled)

30. 29. (Canceled)

31. 30. (Canceled)

32. 31. (Currently Amended) The blood component analytical method of Claim 24 23 wherein the concentration of the cell shrinkage reagent is 0.1 ~ 5.0M.

33. 32. (Currently Amended) The blood component analytical method of Claim 24 23 wherein the biosensor is a one-step immunochromatographic test strip.

34. 33. (Currently Amended) The blood component analytical method of Claim 24 23 wherein the biosensor is a dry analytical element.

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34. (Previously Presented) The biosensor of Claim 1 wherein the concentration of the cell shrinkage reagent is 0.05 ~ 5.0M.